Aviation News

Air Traffic Soaring to New Highs Reports issued by airlines and Civil

Reports issued by airlines and Civil Aeronautics Board show phenomenal gains in all traffic categories, with some increases 100 percent over last year.

Big Stores Survey Aircraft Plants Sears, Ward's and Penny chains are interviewing all major aviation manufacturers before placing orders for post-war delivery of hardware.

公

Wooden Plane Development Lagging Although the U. S. eventually can match foreign skill in non-metal aircraft production, it won't be in time to win this war, commentator says.

3-4

Congress to Get Manpower Problem Washington officialdom views industry's shortage of workers with alarm but schedules action about the time Congress will return to Capitol Hill.

74

Renegotiation Amendments Drawn

Proposed changes in law to be considered by House Ways and Means subcommittee would permit contractors to retain sufficient reserves.

M

"V" Loan Financing Gains Favor Consolidated-Vultee, Bendix, Lockheed-Vega, Bell and Cessna report negotiations for funds with other firms planning similar action.

H

More Foreign Routes Sought

American Airlines asks CAB for London service and Northwest files petition for Calcutta. Other companies seek feeder operations throughout the U. S.



Guy Vaughan, president of Curtiss-Wright Corporation, who is leading his company's successful campaign to step up output at the Lockland, Ohio, engine plant, despite Senator Truman's statement that government operation may be rapited. The plant's production will show big gains over July.

Super Human Vision with "THE INVISIBLE CREW"

Exercised "enos" has present a forced by or cold.

"specially enoyether may device and her cold. "special has been dealed flation the close and the flation flation the close and the flation flation the close are to the plate of a U.S. faltion plate?

And flatida, place has nother 'anneat' - data determined lesses. Proceed' fortenesses in the human for him —where flates it no become large or the comment of the m—where flates in no become have been an experience, and had a few him — who has had altered, speed, promote Frest "decrossesses apply. No working water The comments apply. No working water The comments and income maps."

and hold a for home , show the presence the red to a possible first foremental transfer. The foreign foremental transfer The foreign foreign and a head , these and the foreign foreig

populari — Papir Information, Silvai C. Asiabo — Arron ton, Delvarios, Communication Engineer SEREMENT — Advantage of the Communication Engineer SEREMENT — Advantage of the Communication Engineer SEREMENT — Advantage of the Communication SE



WAT 10801

THE AVIATION NEWS

Washington Observer

MANPOPIEE—This situation is still readdied and there appears little hope for any ingeneficiar period. This does not man that industry does not have sympathetic people in precurated, because it does, but there are or many factors succeived, including political problems, that progress is show.

RENEGOTIATION—Proposite for contract renegotiation are pending before Congress and as easys as the legislators get lack into neurons there will be other proposals which will give amends annableourses and other was contractart some hope for post war oncreasing funda. There is plenty of copposition, however,

CONTRACT TERMINATION—There is an increasing understanding of this offendism in govcranest. This does not mean that the industry is safe, but it does mean that more people in government are interested in this phase.

FIGHTER ARMAMENT—You can look for some southing changes in the ormanest on our father planes, making them even more deadly Mischine gans, to many astrances, are giving way to cannes—and maybe to based the

There is trust decouragement in efficient Workshipten were the West Court management would be the West Court result of the West Court result operated from the West Court result operated from the West Court result operated from the problem. They further content that many sloggrates are averagined. Mappined weight problem of the workshipten of the West Court result of the West Result of the West Court result of the West

For example, one high government official, centify on the West Coast, actually stambled on here card games in one shippard during works at hours and a short time later, toking n look

The best analysis of the West Coast situal

brings the conclusion in some quarters in Weshlegion that management is not getting expends out of its southern. Blane is placed not so methon management, as on the workers, who have an particular internetve—targethe incentives, that is, to work any hunder than they do.

an angular we were or constraint remindent as view grown has week that top WPI officials, incl View Executive Vice-Charmon Charles E. Wolson, force on over-ell pittell menchave program as the obtainer. There is no district behave that production can be substantially increased with existing persecution. Seep an eye on the incentive populariest popularies. It does no though they see as the earth pittell.

A recent visite to British returned with the very delate impression that the United States is not makeng the best too of its assupower and that we have thousands of potential was plant workers now doing jobs which are in we may harizally essential, although some of them are no listed.

An official release was expected over the closest from WPB Chairman Donald Nelson tok wall show that our cental pines previous exceeds by an unexpected margin the mancence of aircraft loss in hortle, accepted and obsecence. At the same time, Nelson was espected duclase the aircraft which have up Army ferrance and a marry of the types on which districts will be concentrated district.

Our thing stands out deliminity—there will be no fulling off in the production of our fear-regime benders. The Army and WPS are prepared to tike my steps accessary to neuro production of these regimes of Arch destruction. This may man a resulted cutter thack of some other times.

Problems in givier operation are receiving increasing attention, from some accumulated contraction of the product difficulties with agricum has been the contraction of the contraction of the product of the mention in creation is proper position with rementation in creation in proper position with re-

A 41/2 Ounce Lever Switch with 5 Ampere Rating

With eight contact sarings, this switch weight but 4 by concer. Do cod A handle of moulded Sokulite is force enough to be equity arranged with a played band . . . Is confirmed with a non-surrouve metal most to provide

ralling, stateling steel leafly. Pressure on the lover course the outer boll to

Features of the Massage No. O-12 Lover Switch ere:

L Standardheury daty contests ment 3 "18" and Scientis would all leaderless streetline

The payment No. 9 42 Lanet Switch is now

Deseld F. Messman, Inc. 6133 N. Northwest Highway, Chicago, (31) Sirens MOSSMAN Electrical Components

AVIATION NEWS darrest 10, 2143

Crosse W. Press. Social H. Wilson ...

1292 Natural Press Berlding.

Advertisers Index

An interesting development followed the concellation of contracts for the wooden C-76 Curcritical list. Playwood experts at WPR but here. C-76 program and now flad they have pleatyof the maneral—for other ween.

The charge of cells for an independent of farce has been bolistered up by the voice of Senntor Put McCarray, author of a bill to set up the program. The Senator sent a letter to President naint that "food may write the peace, but an names will win the war." He urged immediate action and added that "every hour we spend winning this war the slaw way, when we could

The first airctane to come whally out of the General Motors compects. The plane, envel-

said production on this two-engine beenher was due to taper of. There hase't been a foreign dateline where the Marander is energing which plane. Nebady is talkeny much yet about the is rood and the above is addrest to it every day. Maranders and their cores.

perested in the Admiral's sudden "emphication."

Nebedy knews, except a few Resolves, what the Russian plane production is, but a Governo passes sets it at 28,666 a year. The same report said that only 5 percent of the Soviet planes

Reports from German occupied territory have to manufacture French DeWestune and Lee fighters and Block beesbers. Germon seconds production is sign to be off an estimated 400 a month as a result of British and American raids And the weest to set to come.

Serious consideration is being given to a prothe reasonance problem. It is understood the plea has the support of Undersecretary of Was Patternes as well as T. P. Wright, director of Area and recorder of the Abreralt Production facturers in connection with the draft is that they have last and are leaded key presented. While the number of military separations is comparatively small, key personnel makes the losses more surlous than the numbers indicate

Capaderation also w being given a proposal to ask the War Labor Board to recreise the starting pay in accordit plants in an effort to rave them better turnty with shipbuilders' nex-

A new Nort slove is said to have appeared earr Britain is recret days, described as a Mesperschariff 1990, probably made at the Wictigs because. The new plane was deemed by antialorgeft. It flow at great height and was exceeded by two other planes. The RAF is examining what as left of it

WASHINGTON OVERCAST: Like to know Conference? So would Washanston and so would seen 200 newsmen who rearned the crueshs of information from the table leaded sizes are up to About the only information



White-Rodgers outgmatic temperature modulation equipment relieves pilats far greater concentration on fighting power by praviding campletely automatic control of:

- 1. Engine rowl flogs (both oir and liquid cooled).
- 2. Oil cooler shutters or flaps.
- 3. Cabin temperature (both super-charged and
- 4. Corburetor oir temperature.

Upon request engineering data will be furnished to manufacturers requiring controls for the above or other temperature control applications

WHITE-PODGERS FLECTRIC CO.

SAINT LOUIS

TO INCREASE THEIR FIGHTING POWER +++

MISSOURI

Curtiss-Wright's Lockland Plant To Report Big Gains This Month

Officials believe low-point of July will be far exceeded in Approx. but ask three months for fair trial.

of new declines in cooling producto take over the plant unless the Frerific Lag. Bet-Officials of Curnautical is a subsidiary, are quite that the production lag was terrific-

ready to pent to a substantial inby expect further increases in the Vaughon, President of Cartins-Wright, cancedes, as charged by agerial and supervisory personnel noints out, however, that the rean-

by the company long rince and he feet in the 30 days given by the is a matter of doubt. His nurses

b Under Some Management -- The attrade of the War Production duterb management of WPR can occupation would result in WP96s AVIATION NEWS . August 25, 1942.

Despite widely-publicated reports pointed out, there is no assurance k Brainend Confidence - Several of the culture's trea-flight production) Way the Sheen - The Cartissa

b Mass Outnet Dewnfall-Unfocht-

courses, in another drop in product marriage dates once the hornier at tion. At the same time, it was total of 12 owns

man Senator Trumpet. It was unsearch had been diluted also bethe reseason had fullen down in

b Tallared Approach—Some menhere of the committee were said to costem-building attribute had been b Righton Wrong-In view of thes. Accordance on right its adjusted

believ still remains that the Army numbs take over. This procedure is now considerably less certain in view of this month's production ofb Who Could Do Better? - Mort

Rocket Engineers Set Up Company by proposition expense file iscon

forms reportly filed by the new Aeroot Engineering Corp of Paradeen, show some of the nation's b Racket Genius-Dr. Frank J. Ma of Technology, who has been the et research laboratory within the past decade, and Dr. Theodore wan Edward F. Foreman, R. F. Lewis, L. H. Hermin and W. T. Cumangof its rocket research department, elaborate apportus to test rapidlynext as a "borsb aquad" consultant

h Management - The directorate

and District Attorney, his worked

Characters with patters-wide bil-

lies dellar murketing poticia may

Sears, Ward and Penney Stores

clesely with Maline since 1991

tion conferences with Royer in

terni stare. So for we have made

Per-War Tests-During the pre-

Quiz Industry on Post-War Goods Big chain store operators interviewing all major aircraft and

accessories manufacturers to speed peacetime orders. By SCHOLER BANGS

FCampatition - The West Coast Plenes to Hardware Scors, Borsatisfies when the was ends

Prot-War Products-Chala store sily sue telling surerell factoring What Brees West Veters war shelves, and are learning from goods, cameras and novelties are among the thongs the buyers want, California averaft factories, by textly are conferring with a periode

Spring Basing '45-One Los An-

"There are no los apresalt forms New Rolls Engine two-spend, two stage aspercharger. Factories the length of the West Court are being visited as rapadly as possible by buying groups that alclosed that it has been in volume

president, said that is effect, the new engine raises hir warfare nearly two miles higher and that harsepower as stepped up to more two-speed, single stage super-Director Cites Peril to WTS Servent fears services may not

new type Bells-Heyer screens on-

Development of the supercharges

A strong ples to continue creil was made by R NcLean Stewart in an address before the Midwest of CAA-WTS and he foured the Fest-War Training-In order that * Courses-At present W78 um

Army's Women Pilots Are Labeled Wasns Hyers retrite civilina source for

recurer officials are

Gen Arnold: Women's Alr Force Scrute Pilots, shortened to WASP AVIATION NEWS . Aspect 50, 1943

Investigat Carbran and the Wren-Lear, form the WASPS who for ATC, Continuets, Ohio, while More Women Priors, Hendownsters AAF. Orville Wright

Studies Glidere craft, inventor talks friends

Orrifle World, on investor of the mally flew violets with his brether than 40 were later, the surveying a development relative to charge New Significance—II successful at

* Added Javertion - Bendes has states respect, he also is working

Conduct Tests in New NACA Scaplane Tank

Selecidos report progress in soudy and climination of "porposing,

in the way effort, are being conducted in a new 1,600-ft, tank at The rails that corry the overhead

studies that the existence of the tank stelf has not been published. AVIATION NEWS . August 26, 1843 Shorier But Faster—The new trak celeration. In the older, about 1.000 ft, as used to accolerate, another

h "Percelaine".... The year track year. offely NACA's suck No. 1 a 2 999-61

bomber output

Made-ta-Order Sea - A fapour effective that another is being installed in tank No 1. These mu-

erteal sen according to scale, creat-> Seale Medels -- Models used in the

heed support system in the new tank also permits repreved methods FRonk Work-NACA techniques

tage, to surery no deviation in the

dupth of the model in the water.

Convair Launches Drive for Patents Firm increased in all ideas, creck-

Prospect of a battle among screenft indicated in Consolidated Vulter

Paimi Engineers-Valtee in ap-Field Division of Downey, Calif.

pear Los Angeles, ecotered in an Manis Patent Dept -D. F. Morro.

Forcentage Basis-The agreement guarantees the employee \$10 upon \$50 when the petent is obtained by \$1,000 gained from the patent, 25 percent of the second \$1,000; and 20 nercent of additional money mined

Navy Shuffles Its Air Officers. But None Joins Chiefs of Staff

Promotion of Adm. McCain and transfer of some offices to opera tions seen as nelly a seen in rude discerson Pull-thouttle air power men have Naval Operations (Air)-Vice Adm

the Navy's watery-becalded organs. | Marines-The director of Marine Corps Aventure and appropriate Mapost of Deputy Chief of Noval Optime Corps offices in the Russia at erations (Air) and transfers fuggtoos of five divisions of the Bureau - the Deputy Chart of Naval Oners. of Asconsutace which are related to tions (Aur.) neval operations to the Office of the | Nevy Precapement - Rear Adv. DeWet C Barriery, who hends the birmarlf solely with procurement arr officer, on the Operations staff, b Kees Predicts In amounting the new set-up, Secretary Knox obcond races than a year ago. Why or

ofy air warfare. We now have a bureau to supply the planes and a department to operate them." He added that he thrusht the move b Efficiency Airs ... The Bernes of would "merease the respondently and autosomy of the severaging administrative susperts so vitally ampartant to the operations of the described it, would function more | Incomplete Representation-Avid

Figure Seattles - Storotocs removated tions are so scattered under the new set-up that it is difficult to ferret water Nevy men had in mind an organization which could not be resultly lifted out of the whole in

dependent sir force with possibly Functions-The Bureau of Acre lating to operations which inour. Fight and Air Information Divi-

25-MAN NAZI GLIDER First RAF photos received from Catavia. Sirily, show one of the Germans ment fully eccupied, or maximum fresht load of 5,000-lb. Span is 79-fc.

a vect-admiral is command of all place with other previous charts who plan builties, appresse and cruft and of enemy plones as demcostrated in combat, and who train men for combat and desemmate rise general. The changes, in a

h Encouraging Stem-Middle-of-the-

Navy's Air Arm

Marks 30th Year Adm. Devey signed original reper recommending average unit.



for londing. Brooms U. S. alider now built to the Waco CG-6A correspond

Elbraca and Bodgers and others, the FEDERAL DIGEST War Labor Board Turns Down Brewster Pav Increase

max a phone off the deck of a shapcomplehed by Elv in 1995 from a rhetern on the how of the DSS

New Plant To Make Planes for China

First to operate with Chinese workers for DPC and AAF. A Secret Sile-The new industry.

paid for prily my holidays a year labor supply, making it possible to that evidence was not subsentted

Conference-Portagonals in the a member of the Chinese Constitu-P. S. Shelt, assistant lastron officer of ed Nations branch, Air Service Command, at Dayten; Lt. Col. C. H. Mu-Branch, Resources Control Section. and May, A. P. Evers, of the Feetly-> Sub-Contractor-Man. Evans re-

commitment with Studebaker to appearately \$98,000,000 player or Indiana of about \$115,000. The Way Boot, appounced award indicated unofficially that several Defease Plant Carp, also and considered. The new plant will be

A DIPC has sutherland un increase in

NIRR WPR and DPC

employees at Lanc Island City.

b Holiday Wases... The request was

of helplay wares. The commence's

nerformed on the holadays. They

Summary of week's official action includes reports by NWLB. National War Labor Board has relea, to provide equipment at a

proximately \$40,000; [2] Increase Co. Detroit, for sidded equipment to cost about \$1,560,060, bringing the

Frenchille Avistion Corp., Babylon. N. Y., was ordered by NLRB to in any other manner interferring Under Executive Order 9843, inrights; to effer four employees onmediate reinstatement with back

An increase in contract were the Stadebaker Corp. provident adda-I The WPB appounced that in any 169,000, bought DPC's over-all

> Cal. to cost over \$1,000,000, for bedray street and inappersum Dallas

THE AIR WAR

Wooden Planes Failing to Catch Up Wirh Our Metal Combat Craft

Although U. S. eventually can match foreign craftsmanship in Flasiie Physod—Thai left wood non-metal materials, it won't be in time to win this war.

What other countries have an- the most advanced references in complished in production of wood- reveting specialisms cannot provide, A metal airplane in combat or even ventions of the Mustery or Ameri- name standpoint, have an astoroch-America's experience with wood- after a few meeths' operations in en orrelance has not on the whole top speed owing to the increase in Alareiram Subsiliates - A few example is the switch from the

of the training planes, especially child AT-14 (new version is the advantage of a fairly long expertunefulness in training planes Magcess of great programe. Despute Bett-

building it does not appear likely

Enough Alarmoum - For another

thing, the pressure for wood as a

substitute for alarmonum has been

ed fliw dardw taucoms anguonate

Wood Vs. Metal-That brings up

program really hits its peak

* * * * * * * * * parts of serolanes, but as not sudfreently densite for extensive use In obtain hightness and fast chesh

> forms of se-called "pleate" plyfuselage, leading to all-wood agr-) Wood in Battle-The British experience with the part-wood Hurover 100 mgh and range of more

than 2,000 mi. was a great encour-(The Merceste has at least three versions, a fast, hugh altitude inconnected place, on extremely useful special purpose bomber, a very heavily armed low-dateg fighter or fighter-bomber ventors i



Leading the Managine Probably the world's most exceeded wooden core-



From Plans to Planes at Wartime Speed

sub-contractors in order to compress a recently creapary production of parts into a day. A record for assembling the tools and putting men to work-on today.

Production shortcuts elip missues from hours . . . Rabual, Turns, Humburg, that much secuer. No time to writ for a stretching die made of steel, Fairehild makes it of wood, saving much time, much steel. Special machines are designed for complicated forming operations once thought

Victory won't wait. It needs planes of all impossible to execute entert by hand . . . and highly kinds at wortime speed. Duy by day, the skilled mechanics are thereby freed to isin the area. planes Fairchild is building are better produced 'too! duction buttle at another sout. A machine is built that cuts down milling time on one part by 500 per When wer broke out Fairshild called in access of court. Still another machine in healt which above a

saved in its installation. And so it roco-a minute chapped here, on hour there. Tone-savine ideas from Frirefeld employees have helped put more than one additional pilot over

Faster and faster roll the planes

from Fairchild production bars. they shall. For production, as well as performance, as belond "the touch of temorrow in the planes of today."

-See Endager's Formal Address Fairchild Hireraft Decision of Fatchall Engine and Aughous Gorge, Bayronnen, Md.

AVIATION NEWS - August 16, 1913



ment landing . . . these things have made commercial

Vacuum tubes are wint make radio "tack" and filmac

forwars. Thus Firmer engineers have had experience

with the emblects of avenue, they have the product

EITEL-McCULLOUGH, INC., SAN BRUNO, CALIFORNIA

potential it as easy as fispose; on year house from tiphe,

Filending Experience - Reports of that wood had come to stay as a Army Air Force P- dengarison)

AIR WAR REVIEW: Our bembers

heart of Germany. The com-cross b Programments's Plints Second min-

strategic value. The target was the Oder River. At this mystery stience with devastating hits > Heartaches -- Councilies in even and planes have been severe. Our onby Headquarters of the Eighth Air tons of bombs, made raids on an average of one every four days, shot down 1,726 Naza planes; go

tion to the Nips at Wewak in cripthan 300 enemy planes, bambers Dersonald George Shows an John-off is an AT-21. Painthibl surractive

end of the 1000-ms freet our manan on Normen a 2 600 rm round a few along in their bag night b Kicked Out of Kicks-The Jame tenable by the more than 4,000,000 Hercyles 1,000 hm con-cooled en-

ib of bembe drouped on its 33 ter-• Criticism -- A serular criticism was course, shellmer by American war-Firing Furiresses in Nasi Handsquarters in England that the Gerfree. This imposed the fact that the man air force has been using can-The Name apparently have been energine coptured planer, still tion, seto Flyme Fortress formstions. The purposes of these acts. service at that time Anyway, we it was deduced, was not for firms ove mes building pay Spatifres over

and general course of the ranking Pittamore - Sometimes the rumans delighted with the North American Array scent, promptly naming it the world's best in that category. They were so keen so the new Merlin-powered version that they wanted North America to supply

fighter stations and to study the Lancasters Won't Be Built in U.S.

Brittin fails an effort so per Maymarine, builders of the Soutire. It Centrary to rumors, the British is understood that this plan is not Lancaster will not be built in the to be carried through, and that in the long run North Assence can About a year ago when American turn out a larger total of new daylight benting operations becan Martiness by building them here

eaught flat-feeted on the ground At Salamana, following the Wewelk relid, the exemp's color ring over occupied Europe, criticisms all the way through.

AIRCRAFT PRODUCTION

Manpower Muddle to be Handed To Congress for Action

Everybody in Washington surveying the situation but hesitating to issue orders to correct shortage of workers. By SCOTT HERSHEY

The manpower attaction—the Na- of surveys on the Pacific Coast with tice's No. 1 problem-us caught in a conclusions known long succ-that and contradiction, but one thing it protect and that West Coast appoint veyed, because it his-by the Way Manpower Commission, the Way

Navy, Selective Service and other clusters. But here's what did hap-"Week or Fight"-As forecast here WPS was "activated." This commaly evident that little if any defiwhen the legislature return to Wesh- who had a ladle in the broth: repre-

Ne Seletion - This many-sided ment present production schedules understrome gazek and definite retion cause at hasn't been studied and sur- b "Activated" -- A mangewer meetmr in Weshington August 23 prepen: A committee, long set up in

Begarements Consultee. Cluston morpower requirements, is chairnate action will be taken until such must, but due to illness was not able dropped rate the lop of Coursess > Many Cooks-Here are the cooks. sentatives of the War Macpower Delck Action Vital-High govern- Commission, the Army, Navy, Mariment efficials returned from a series time Commission, Petroleum Ad-

Resources Control Office and the War Utilities Subter, Office of Continue Study-The membership

various offices were greened. It was decided to held another meeting within two weeks. The verious rep-Questions of draft deferment for

shifts did not arise b Us to Congress-Memowhile, Manout that Selective Service permetted up to Congress. He indicated be thought it was a probability. He concoded the West Count minutests was critical. He referated that the and these in tarn were passed to

Forced Braft Bagan't Brass-The or cight directive and the announced possibility that nearly half a maliton feet which offern's hoped-that of





experts believe

The arrest industry appears to

Fricken-After turning sheed of

F Gradual Gain-Even with a clear-

problems, production men empha-

Washington Officials Expect

Bigger Plane Output This Month

permanent determinent berries Works every step possible to utilize availends October 1, but Congress meets production Frebian Unselved At the same ficials, in effect, that Weshington time, it should be noted that malitary centage of the tetal labor turnover

deferment would save some key per-Caset, but thus for they have not A Perconnect Deferment-WEV was

reported studying a plan to obtain Finit Wessen-Many sircouft exer-

transportation, housest, lack of torstarby on the West Coast-and

tel medestry figures. In addition

Late pickup probably will raise August total above halv's 7375. Marrin Initiates

and straduct. There is some incited. be headed for an August production. turn to revise downwirel, previous Patent Payment Plan

estimates for the year which were Seven employees already compenand other problems. Weshington of - > Schedules Revised - The so-coiled rowned my times and officials are Employees of The Glenn L. Martin Co are given an exportanity for and suct about holders as own with at least, although uncertainties are the Emoloves' Patent Remuzera-Mayor States - The definite lar in from Plan

Flavorityeges: Rewarded - Alinvestigation during the week. The



the 2.660th may expressioned from more to test by 5,000 workers when it come off the line Ann 19

Pearl Harbor And, as a segu says on the tail of this release. "Then is not the end

AVIATION NEWS . August 10, 1943



velous a new facture or deuter, a

Chauses in the contract repending b Employee Benefit -Although the an agreement is made which mohearings on September 8. War Production Drive Labor-Manbut us an added sewere of resuszern-

Kellert Net Down

net resit of \$125,457 or 33 cents of

Experienced Manufacturer of Aircraft Ports and Assamblins OFFERS ADDITIONAL **EACH ITIES** tor production of other eracious party and arrambling

Although wr are now bary producing starred - ricks - and ress, we love avalable additional production feels

Inmedian Engineering Service on Process Engineering, Manufacturing Methods, Tool, Die, Frenze und Ma-

Consult as NOW Wite - Wite-HENRY COOK

Post-War Convenien - Ben, Dounder consideration Disney has

late advenue non-war recovers A "Substructed Credit," Says Nevy-

Tentative Amendments Drawn velage a new factore or device, a complete description of the aven-

Proposed changes to be considered by House Ways & Means

post-war popyersee of alaste Rep. Curl Husbaw, a nevulsor of retain sufficient reserves for postexplanated that "if war contracts sub-committee which will start Doposition - This does not mean would the arplane conganies be that these changes will have clear selling, because they won't. The which depends upon the infantry. version of severall executives for contract remembalisms hased on net "conversion and defation of sixta-Prudent Management-The House renders management" to accumu-



Bendly Contrasty Here are the constless and largest shack-shapeb-

many resource. The long stratwritten proposed legaristson to aid scripts 42: the eccura bombers

splitted Value, emphasized that the reductry is not opposed to the objective of renegotation in preus need of necessary reserves for northway transition. These reservois h Shrinkare... 'Even the payet orderd h New Designs, for Peacetime -- At-

PRE-HEATING ARMY PLANES IN ALASKA: This North American S-28 (below) and fighter engines southed in probled servery its ability to survive the remona boosle, are being prepared on an Alzahun gerfield for a flight Motors

h Seed Manay - 'Il costs real money to build a new, but sornisme," Callery and "This monty-'seed recess' it has been called-passe by

Vega Official Urges



dynamics and fight test of Vera Aircraft Corp. in an address before emphageed that excess weight of positing out that even a nound of

AVIATION NEWS . August 30, 1943

air tarough proper flying temperature is reached in from 15 cultates in

b Autrestic Controls-He said that A Ston-A-Go ... The introduces of high want places by said, may be wiped out on frequent-step routes skilled personnel and in many cases. would simplify the piloting of large time of critical parts for the reduc-

| Insculation - Further reductions



The present rate of production of shimmin and mamesum insires an edecuate supply of these metals secondary to an appropriate by



ATTISON BELL OVERHALD. Photos of an engineless Bell Assumbes are selden released by the War Department. This one, made at maneurers, shows mechanics overhanding



DEVICE PREVENTS ICE NACA will ranke further studies

He said that during July Reynolds of America produced a total of 17,-\$93,500 To to which government-

country was about 500,000 lb-Tetal production of aluminum in Grough the same period was 233.-

Goodyear Doubles Sales in a Venn Reners for firm holf of 1943 shows

Goodwer Tire and Rubber Co. Net Profits - For the first and fest as months of 1842, with net Passing Peak

New Tire Tread Firemore product safer for high greed landings

An applianc tipe which can live langer and stand up better under by Eurene A. Reberts, of the Fireonly makes possible safer landing of terrain, but also saves rubber and

sources Cantral Color

Plant Expansion WPR sury mouth by month de-

▶ Renerves—\$7,999,612 has been not struction activity declined \$718,288,continuous The francial stateyear, and that expansion work at ment-financed 100-settine gassline plants increased in June and apticiuse of the first half of '43 heavier more has been developed + Other Indestries... Puture activity the 100-octape program except conamplification of the wheels on is Max it Miller.

Lombard Urges Cut in Other Production

der revesent conditions and that profitly absorb from 10,000 to

other than arresaft or a redacstates, perticularly California, counde additional manower for Lomberd, Jr. Director, Man-

A Price Need - Originally Dr. Lombard was hapeful of contheir employees to shratetim nower Division. Agreest He- plants-also in need of men, but Servator Bottom -- Dr. Lorsnot fearble. He said that about Purely Coast survey, agreed that 1,000 workers would relieve the aluminum situation, whereas



TODAY When Metal

TOXOBIOW, these lighter, lougher

Is Scarce . . .

An our wederells should be able to attain great alfitude In addition. its please want have fuel enough to patrol vest areas of bootile in inspertant measure to the lightness of Boots all-ment, self-locking man. Became Boots News are looker than other news, the weight they see can be officed for para machine-or aggregation. Locker Book Nam on "take st" ton No olone obrasion con

looses there. They withough the companye action of sale water, oil or channels. They say he used over and over. They literally "patproor and maintenance time. These with med on every true of U.S. strengt, trees the exaction modifications of all revenuent oversion.

"They Fly With Their Beets on -- Lighter"

BOOTS Self-Looking Murr For Application in #7 networks

TRANSPORT

American Asks for London Route: Northwest Applies for Calcutta

Subsidiary of Georgia Air Service files periring to serve eight southeast seates. Others request services.

Two domestic sirrines seek to utilized in a way which will concual firsts in applications filed last and the rest of the world" The Board also received applications for new pertilicates and ex-

Freminal Points-American Arrdemonstr sources.) Feeder Lines-One, filed by Southtayen Chemro, Detroit, Boston and susteen Air Express, Inc. of Atlegts, saled to operate 4,100 miles Narthwest Airlines would no from give southenstern either new without sirline service mail, pessenger and

b Great Cools-The occoosed route

fivilles are over energies may be

A previous application was filed Circle course, via accords in Newunder Seuthenstern's name, but the and the Amers. The route to the ing Training Detachments at Bensettsvalle, S. C., and Jackson. Tour. Islands, Tokyo and Shanshu, white cut company is the first air force Figing Concern-The substituty that its route would piece over servorus of nearly 352 valuts and First to Ask-Northwest filed a more than 200 mointenance men-Serving & Miller-Its spolintion few days believe the other line submethod its application, and thus beers other to an area of more than 5.060,000 neonle. None farkt

cierc the first domestic corner to following resides Atlanta - Merathis Afforday Tellahassee Atlantadeclaration of policy on interna-Placemer. Savannih-Salaigh-Savan + Limitadion—The Board reaffirmed Other segnatories are expected to follow sun S. J. Solomon, chargthe United States Air Policy, cornin accordance with the policy state-Hamble Torner and Rabert Eleicher b Ouick Chears-Post-war plan-

currence! Odds via intermediate rodate with on alternate rocks between these berndtole.

Bellack Alemans, Dallac, Yes Continues of approximately for Alemans of the Continues of the

property and real between Chicago and Detroit via tourgacities points Themes the Previet, Parmington N M Schools of transportation of several recommendation and Laboration and American State and American State and American State and American State St Ny-fisson Pigrand Service, o's Honey Arter Wardington, D. C. Audhoritis and Service and Service of the and Service Services and service and Services Services and Services and

Not-Confined Addson, Names City to Schoolsed prangeroods of pre-sen, preparity and mad bettern M. Schroller, Tracking Company, Fitte

hards Non-relative transmission of freight interest Philosoppis All Wine (ask). Builting Philosoppis All Wine (ask). Builting News in the remaining both the Core Off Orening News in the remaining both and Contact of the Contact of Marine Beaters has Triple, No. of Patricial Con-cion and the Control of the Control of the case Patricial Milestophic Work in the Control of the Control of the case Patricial Milestophic Work

Ringaly Truck Above her Dennie Variethericals tomographic of property cally between Chicago Struct City Own-in Server Dennie Spectic Cap. Ed. Laker City Line Magazin and Star Propof Procking Company, Toleta of Inapportation as as for an in Incide will compat, because and Minnespolis, St. Pres. vi.

Configurated Air Signs, 180. Divisor Schoolston Stansportsjich of paracea property and man between Haddissess East, and Salles. Man. Greeken North Fresh Air Lines, inc., Secretary Person Street, Control of the Control of

Board Grants Western Los Angeles-Frisco

Insugneence deferred until Arms and CAB agree on necessary. Sen Francisco, thought adding and

poles-Salt Lake City route. United Under the new certificates, TWA

a TWA application to include Solings. First Free, president of Transconti-Big Docket of CAB

seed Western are not negotited to . Prohesting-Sept. 27. Prohesting

Hearings Scheduled Receives for new coutes, compo-

for eral argument Sept. 5-7 before Five lines are lixulised. They are Continental, Brazeff, Essair, Inc. American. Eleven dockets have been

ceedanes on Austin-Bouston appli-Hearings-A bearing on tempo-San Antonio will be held Sept. 2 before CAB Expresser Thomas L.

nations for a mete between New lines, TWA, Oxional Airlanus, American Airtines, TWA-New Eng. epolicytion for a Washington-Borism route be consolidated with this

Sept. 19, tentative. Objections by board's order to show quate why Scot 15, in New York City, Pages

gra's application for a United States terminal of Turnee, Museu or St. Petersburg, Fla. Sept 22, tentative Application by

Broad application to include Tope-Dollas, snother on Broniff's acob-Sept 25, tentative Initial hearings deat. Torn Wolfe, autounces addition

New CAA Mobile Teeffic Unit

he control unit that can be an operathe Air Traffic Control Division of started a pension plan for priors, fol-The tower is built on a two-

same facilities as the usual control Railway, Membership is cornucted tower, meloding radio but palots must be under 46 to pur-

Chapago and Seathern Are Lanes'

rental & Wordern Air, has been

ing traffic estignation of San Diego,

and Sain Lake City are terromain

furble or a marrier which will produce the most revenue, and post vesion of W L Scott, superintendent of reservations G. W Davidson in charl truffic dispetcher of the Certier

Delta has been notated by the service between New Orleans, Beton

\$ Two sixtees have been given perrussion by CAB to use pertur serand American may serve Police Springs, Colif, through use of the Poles Springs Army Act Bose

AVIATION NEWS . August 30, 1942

Air Traffic Soaring to New Highs: Some Gains 100% Over Last Year Reports for periods varying from one to twelve months released

Finlieve-It-or-Net-Here are some of these "astronorates) figures," for

ures for the year ending June 10,

reverse passenger stiles, 1,517,621,-

ended June 30, this year, compared

342: revenue miles, 115,008,879.

by CAR and sirlings By MERLIN MICKET

Newhere is the increased business pared with 76 percent of almost 18 b Shallow Statistics.......... American. that merits general application, flown have reached such astropores P Velone Un. The Cred Accounts ties Board thand that in June mail the attributes were 17 A nervest barber

ner grays were occurred in conf-

Francy Figures-Despute the deep b Scheduled Milenes—The large two 1 926,465,300 or June last year months are few 99 correct of of the 15 average available sunts 1942) was \$2.23 for the 12 months

with 64 34 for the year ended June Among the Andreas - American seven menths of 1942, an increase of 142 I percent ever the same noried in 1942. Air most carried was ratios of excress in the first seven 462,248, manu of 90.8 and 56.7 per-

b United Air Liess-July may new records in mind pound miles and 539,295,500, n 16 percent boost own July a year ago Estamate on ex-915, mail, 31,728,977,548, express. >TWA-Transcommental & West-199 and 78 percent, respectively. for July being \$1,355,700, a figure

> Confidental Asr - Convince in seazer revenues were 128 percent h Mail Pick En Sarra-All Arrers

a New Highs..... A July total of 9 510 -

above that of July a year ago Northwest Airlines reports its at 104,124, or more than 2,000 fts.

Airlines Suggest Simpler Tariffs Air Traffic Conference will study

> Budget Set-Charles C. Hubbard, director of the tanti division a ATC will be in direct charge of the work, prefermany phases of which ing at Denver recently, where the are expected to take three to say know how much it would cost, but

TWA'S PORTABLE D.F. on takents has been built for rathe-American Grace Airways, V. P.

AMERICAN'S FIRST SCHEDULED CARGO FLIGHT When American Airlines lounched the first truss-continuental all-curco service a few days oon, the cost-board flight from Los Aucoles to New

ber of the Card Agreementer Board, and H. W. Judd of the Washington office of Barbray Ecorem Agency. The plane arrived in New York with a 2.021-th load, of which 1.153 th were air read and 900 air express. Take-

Agree on Evidence In PCA Mail Case > Objectives The researches have Line socks Baltimore-Pinsburgh a long term effort to bring shoul the

b To Sheer Need-A recort on the conference by F A. Low, Jr., Civil Agreements Board sommer, and time, and the breathing space before hetween Washington and Baltimore post-war expension scens a cond present are revised constantly. though there are four control re-New members of the ATC, taken

truffer and sales for TWA is this





DEMOCRATS need "Seed Money," too

Seed Ideas and Seed Money Whether you rose a whole limited as a short as a whether you can a woney ago gost, a page or a

Did you ever seep so think that that immorrise

Extired to foreign as an encomment ore goodstily and policically favorable to induce

The Seed Money adversaries of Organical

Some programme, was required the Send Money Adversariant's receiv, over their own ages seres. Others are starring their own compagns littles row, the first Mrs is being placed.

McGree-Flot Published Common In-

FIRST MATE If you made the re-policy day pressure your year own you

NOW don't get excited, folks, this isn't a political advertisement. We've got some problems simple, and we are united the world

"democrat" the way the men who thought it up More than 2.000 years are, the Greeks deaeided to guit believing in Supermon, and they in-

vented this word to express their deseral idea. Forey schoolbox knows how that idea was realled off the shelf counties book, and a form of convenient homewood out that would allow Inc. Dookes enough personal elbow room to do his steff in the world.

Farry arbeedhow become too, that when fel-Within the memory of living mea, we have traded the economy of the boe for the trector,

So yest has our mechanical relicht become that by shifting the ends of our production lines from the garage, the kitchen and the living room to the aking above Italy Greenany and Israe me are changing the history of the whole world.

With all this closy to his credit, wouldn't you think the common man would know how he did it.

DEMOCRATS need "Seed Money." too (cont'd)

He doesn't know, because he discounts the

part that his own, native love for impresenced plays in our national life

forms. It continued in millions of curates and kitcheas. It rides with every American support today. American instrucement is essentially a Joe Doubles office Here's how it works 1. Jue invests something and invests Soud

Money in confrment and materials to

- 3. That makes and paylor jobs. 4. The Imparts more Sout Movey to Improve
- his product or his method of making it. 5. More months here it 6. That makes more stood paying tobs.
- better machines, to get volume production. 8. So, Joe lowers his price.
 - 9. Still more people buy. 10. That makes more good paying jobs
- less wealth belowe subters fightfast strength or - This simple progression, multiplied by mil-

lions of impuners, excluses why "Seed Money" Seed Money is used exerc time a product or a machine is improved, because Seed Money messa "that part of profe which is 'plowed back'

Joe Dookes will need his Seed Money, to attract customers and create jobs when this war is over. But a deaperous percentage of Joe's Seed some of this money after the war, as a lone, But this would mean another coverament bureau more Federal employees, all of which will further present the cost of discoverness. But above allthis money. It belongs to the concernment, Hence, the "take a chance" spirit, the life breath of progress, will be hebbled just when Americans

There is a simple and much more effective way to surely our American industry and com-Chapte our tax laws to permit industry and business to set mide from present comings the

need it most.

apprecions to exente jobs after the year.

toward the source of all improvement-Sond Manay. To bright this about, remind your Condressman their

> "Industrial Process is the Source of all Good Living,"

OF INDUSTRIAL COMMUNICATION 14 poblications, which prober "transport" from the "saw prober on least" through a coll of some sizes \$15 astern med \$20

McGRAW-HILL TOOKS Publisher of reduced, engineering and becken books for

aspin from Larger quantitate, \$1.00 per 700; \$33.00 per 3500.)

McGRAW-HILL

PUBLISHING COMPANY, INC. . . BOOK COMPANY, INC.

Attenue Mathant - An Traverse - Victor - Archive Ton Transportance - Table of Balls - Cod Age a Chemical Scientific Engineering Product Parkiellers Introduced Congruence, a State Variate A Manhantin a Management of Early Assaulter and Congruence Congruence of State Assaulter and Congruence Congruence Congruence of State Assaulter and Congruence C

AVIATION NEWS . Appart 30, 1949

PERSONNEL

Amenos Prepalter Corp., Schoolway ments during the past month. William sgreet for TWA, has taken the past Liquid Cooled En-Henry F Lew (photo) is operated

TWA system mad and express depart-

designer of nigon a student at Springfield (Mass) Token E. Gladet, with Northwest Arra uress respectative for TWA as Les. occounters, office measure and super-



Tukyt Office, who support Charges &

After five years with Donalas Air-

Walter D. Perk of Pap Asperiosp-Grace charge of sales and survice of Wright

ed manager of the Lockland plant, Consdien Pacific Air Lizes bez expersied E. Politys octory superistersdeat of the Edwarden to Whitehard

AVIATION NEWS . August 36, 1943



tent to the trespurer

within the MPR solutey distances SPANIARD VISITS CURTISS/WRIGHT:

arribes the evaluate of the Pu40 Warhards to Gen. Just Respicies, right Lacking in it Lt. Cri. Joseph Radrigo, U.S. Army affect take accompanied. recently appointed director of rehad served as district treffic measure

Logic F. Holomen has pointd the pul-

Doeld A. Dell has record Contracted Ocntral With the Joemer company

Net Prochell (photo) is appointed man-Adam will cur-

and combat planes and former han-Division, and a past with Unried



STUDIES REGULATIONS: T. Chade Resurrendental Resur Acco-Jesse W. Laukford, director of the CAR's Sufecu Bureau, is directing a starts of changes which will be after the war. The bureau has halted AVIATION NEWS . August 10, 2943

THE NEWS VIEWS-String a teacher of physics, a

of a large approach perspany and provident of the Aeropoutical Chember of Commerce all in a lifetame doesn't happen to meny men. But these are some highlights of the career that Jim Marray has paled Murray was been in Mystic, Conn., in 1883 and lived all over

New England in his youth, Graduated from Tenrity College in 1914, he jessed the faculty of the Newman Prep School in Hackensack, N. J., and our entry into Werld War ice resulted in his joining the Brit-13h Army Air Forges. After 2010t Marray started flying med with the

ling was too strong and the follow-For eight years, Jim Marray pura full moment. He has creeked upmore than once; he was one of the the transcentinental air med up September, 1920; he was a propeer

J. H. Fountain is the newly ap-

Fresh A. Badrigh, who has been up

ger. He was earlier affiliated with

Army of Occupation. His run



White hardene the mail, Marray

studed low and was admitted to the Rowlyn Jensen in 1825 and they have Jim Murray's last flight with the mid was on August 26, 1920, and veers vice-president. Although he newed life to this arrangization and us fast rebuilding it into the vigur-

cods bus assumed pery dulies at derector, to succeed Larry Boress, re-moned Before territor Corpoledated

Avent J. Ages has been appointed personnel director of Chicago & merly with the

Corp. in Men. drougs of Countidated Value Air- Communical Could Cara

FINANCIAL

"V" Loan Financing Plan Gains Favor in Industry

Convair, Bendix, Lockheed-Vega, Bell and Cosms report negotistions, with other fame pending,

By ROGER WILCO

The policy of V losn financing ceived from the War and Navy is finding vodestread application Departments and the Maritime Com-F Consolidated-Vultee - Outstanding was the arrangement for a \$200 .-993,999 V Iosn by Consolidated-Vul--through the Federal Reserve ice Agreeaft with a green of 128 banks. Only \$40,000,000 of this loan

ent time. It is believed, however, tion dalliers. While more of this the company is probably preparing Additional Lorse-A number of credit. Lockbood Agreeaft and the Cosk Advances-These loans do

another cut of \$5,000,000 is indicated Aviation Corp and two if she able to have an established line of

against loss and were introduced to authority derived from the first Werceptage of interest mayable by the borrower-which the commercial type of financing possible. As a direct regalt. Regulation V was for agency in consideration for the

Hewever, most banks prefer to No Limit-Among other provianteed learn coverns contracts re- b Producers Protested-Most learn

contract in projected to June 32. other things, the contractor in that

tions surrounding company assets during any extended adjustment SEC Reports Stock Sales by Officers

records of transactions.

Free -Central-Promored among the selling croup were 1,000 shares York banker. This official retained

Western Air-W A Coultry, presi company's total stock L H Dwerldisposed of 500 shares, leavant a

in April, but holding a belance of *American - Also reported in the

March, 1942, by Amon Curter, a 12, 1942, the Cred Aeronautica

AVIATION NEWS . August 20, 1942

Board stayed sta decrees ordering

intained 3,200 shares b Colonial-Counter to the selling Colornal Airlance, secoured 4,560

Also on the buying side, John R. Longwise, a director of Chicago & quired 1,300 shares of that com-

shapes, and John H. Josett who acerait to make his total holdings 900 n St. Leans importroped banker or a Sales-The little activity to or-

various purposes. Similarly, many 200 showing of Farrelithi Amerali during Jupo, having a balance of \$3.598.

Major Airlines Report Big Gains

1,500 more in May, retisting a bul-

quest or inheritance, 750 shares of

> Bass-On the purchasing side were

Charles L. Beard of Rell Agreed

In Revenues and Traffic Over '42 American, United, TWA, Braniff announce figures for first halfwith others revealing data for varying periods.

Three of the nation's "Bur Four" ern Azr, reporting for the first half surkers, coint degree on fost-half other corners unappaged new rec-American Auditors-Out of a busine Drugiff Astways - Reported net

b Colonial AirFines - On the other hand, this company required a vet placed its not income for the six TREE/IN CERCIC JURY 10 at 10, 153, 490. ended May 32, ofter charges and SURLEY for the same nerted had P. Accaricon Expert Airlines-Thur year. The line reported total oner-Unsted explained it was making

TWA-Trenscontinental & West- were \$191 a share.

report showed that not profits for Mare Davidends - American Airuses for percent and consolidated subsidiary contenus, showed that of 1963, after provision for preferred controls stock outstanding. For the some period in 1942, the currents

No Bareneters - While transac-599.899. mail, \$2,827,966, express \$1.010.395; regro Tamous, \$265,502 osolook for their respective cognbe an absolute baremeter. For example, equaties may be sold for the purpose of mising personal funds for

> Airaco Conversion Deal Completed

Operating reverse of \$15,252,656

press, \$1,000,750; other, \$335,484.

United's operating revenues for

128.662 (compared with \$18,635,018

President Walker area 21,394 shares are converted, 125 ace reseered.

tion price of \$9.90 per share abuse The corporation operates plants in

Northcast Files SEC

Stock Statement

manuor. The shares are to be ofand other interests, select to an offerent to recover shareholders at a rate of two shares of new stock for Figure Terminal - The owners.

ties in with plane attributed to air terminal and expend to New

under existing lows." Application of the effective assessment to AVIATION NEWS . August 20, 1942

Service Begins at Home

THE AM TRANSFORT INDUSTRY at the moment is enjoying unbounded public confidence in the future of scheduled fiving. The dourest observers are good. Bailroad, bus and truck operators think on too. So the robbin now has little reason to

Consequently, every foreign application that is ties Board is considered significant and gets a big hand from the norman news. Pifror a nice for a route to Moscow, Hankow or somewhere in India has become, overmithd, the industry's sure-fire

think up a new combination of fivest machine national payerspaper notice. But the bishest headtion of servine crises on the other aids of the slobe global ambitions for the post-war age or suffer

This "keeping up with the Joneses" could hardly be obsertionable as long as the only costs were for attorneys' fees and liberal supplies of paper. Persons the folks in Warhota or any number

of other present or potential airline stops evenactually mean nothing. Realistic people in the routes, domestic or foreign, will not be an element

Perfor American array and its State Department have not formed even a tentative policy on international sar routes. The way must be wen before any definite results are possible. Then there will be delicate and complicated negotiations at the peace table. A world sar conference may have ent bears there will be detailed discussions with

Nor should the public be led to believe that the morning after the Armstice the world will break out with an interlacing of air routes offering service was told in a wave of enthussam that we would the war this year or next. It knows now that these shine are perhaps possible, but not soon. But stringers flying in the expected manner across the northern wastes to Moscow and Schools or crosscrosses the Pacific on non-stop jumps of fantastic

THOSE IS A LUCKUME CONCERN ACCORD THE SHEET people in Washington that the current emphasis on Shances, in may back fire on the Industry. Once the war is over the average citizen and business recognizational place names and settle down again to earning his living in the home town

This appropriate does not become the fact that legitimate foreign operations will expand at a rapid rute in the rest, war decade. But there won't be room for every apline with foreign espirations. that during the creampuff era of mass applications realistic work. The railroads, truck and bus been may come up with thorough market surveys and may show that the industrious newcomers are day job of flying Mr. Citizen and his mad and express with economic efficiency from the home town to anywhere else in our own exentry. Strong tubbs support for these realists could hardly be a surprise to the lofty-minded autimes which may torses. They may find others have taken the initia-Service begins at home.



46 MORE BLASTS AT THE AXIS ... thanks to PLASTIC

Diffuses pounds served may not seem file very much to sos - but so a turnet gunner, it makes possible 46 earn rounds of 50 caliber ammanuton which could meno the difference between Victory for him-or the

gas, or added speed. That's why plastic is contributing so much to sectrals efficiently.

We shall welcome localities regarding the production In a record application of this stroog light weight

strong to these made of metal, please parts con Iro

mold, a lemmeted-better plants developed by McDonnell.

fabrication in the specialized shapes recessary for

farreg, and spres and skirt assembles. Equally as

ROBERT M. WOOD.

AVIATION NEWS . August 20, 1943

MEDONNELL Aircraft Corporation

Manufacturers of PLANES - PARTS - PLASTICS - SAINT LOUIS - MEMBES -

